

MODIS IOT Weekly Report

Mission Operations Days: 2000/148 to 2000/154

May 26, 2000 20:00:00 GMT to April 2, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in Science Mode

MODIS has no known Anomalies

| | | |
|-------------------------|---------------------|---------|
| Blackbody | A On; B Off | Nominal |
| Calibration Electronics | A On; B Off | Nominal |
| Control Processor | A On; B Off | Nominal |
| Door: Nadir | Unlatched, open | Nominal |
| Space View | Unlatched, open | Nominal |
| Solar Diffuser | Unlatched, closed | Nominal |
| FDDI Formatter | A On; B off | Nominal |
| FIFO Memory | 1 & 2 On; 3 & 4 Off | Nominal |
| Format Processor | A On; B off | Nominal |
| PC FPA | A On | Nominal |
| Power Supply: 1 | On | Nominal |
| 2 | Off | Nominal |
| PV FPAs: VIS | A On | Nominal |
| NIR | A On | Nominal |
| SMIR | A On | Nominal |
| LWIR | A On | Nominal |
| Radiative Cooler: | | |
| Outgas Heaters | Off | Nominal |
| LWIR FPA Heater | On | Nominal |
| SMIR FPA Heater | Off | Nominal |
| Scan Assembly | A On; B off | Nominal |
| SDSM | Off | Nominal |
| SRCA | Off | Nominal |
| Survival Heaters: PS1 | Enabled | Nominal |
| PS2 | Enabled | Nominal |
| Timing Generator | A On; B Off | Nominal |
| Flight Software | Rev BD | Nominal |
| Inhibit Ids Set | None | Nominal |
| TMONs enabled | 66,67 | Nominal |

This Week's Completed MODIS Activities:

Saturday, May 27, 2000

None

Sunday, May 28, 2000

None

Monday, May 29, 2000

150/20:02:00 ATC - Blackbody to 270K

Tuesday, May 30, 2000

151/14:00:00 ATC Blackbody to 315K

151/14:06:34 Real-time Set Blackbody duty cycle to 100%

151/21:00:00 ATC Blackbody to 270K

151/21:38:01 Real-time Set Blackbody duty cycle to 33%

Wednesday, May 31, 2000

152/17:12:40 ATC OA03 – Formatter Day Mode (Normal Operation)

152/18:02:04 ATC OA04 – Formatter Night Mode (REMOVED)

MODIS will remain in Day Mode during this Night Time Ground Track.

This Ground Track covers the Indian Ocean and Asian Continent.

152/18:51:32 ATC OA03 – Formatter Day Mode (REMOVED)

This command is unnecessary, MODIS will already be in Day Mode.

152/19:00:00 ATC Blackbody to 290K

152/19:40:57 ATC OA04 – Formatter Night Mode (Normal Operation)

Thursday, June 1, 2000

None

Friday, June 2, 2000

154/15:10:41 ATC OA16 SD/SDSM Screened

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Saturday, June 3, 2000

None

Sunday, June 4, 2000

None

Monday, June 5, 2000

157/10:44:50 ATC OA15 SD/SDSM Open

157/11:36:24 ATC OA19 SRCA Full Radiometric

157/12:00:00 ATC - Blackbody to 270K

157/12:23:43 ATC OA16 SD/SDSM Screened

Tuesday, June 6, 2000

158/06:00:00 ATC Blackbody to 280K

158/10:00:00 ATC Blackbody to 285K
158/12:00:00 ATC Blackbody to 290K
158/14:00:00 ATC Blackbody to 295K
158/14:00:00 Real-time Set Blackbody duty cycle to 100%
158/16:00:00 ATC Blackbody to 300K
158/18:00:00 ATC Blackbody to 315K
158/20:00:00 ATC Blackbody to 270K
158/20:00:00 Real-time Set Blackbody duty cycle to 33%

Wednesday, June 7, 2000

159/?? ATC OA16 SD/SDSM Screened
159/11:23:57 ATC OA23 SRCA Full Spatial
159/19:00:00 ATC Blackbody to 290K

Thursday, June 8, 2000

None

Friday, June 9, 2000

161/?? ATC OA16 SD/SDSM Screened
161/09:29:36 ATC OA22 SRCA Full Spectral, 30W part I
161/11:24:23 ATC OA22 SRCA Full Spectral, 30W part II
161/13:46:50 ATC OA22 SRCA Full Spectral, 10W part I
161/14:42:09 ATC OA22 SRCA Full Spectral, 10W part II

Maneuvers:

Tue, June 20, 2000 – Drag Makeup Maneuver

Wed, June 21, 2000 – MODIS Roll #1 (2000/173/21:50:10 – 21:56:40), roll degree = -18.0044

Wed, June 21, 2000 – MODIS Roll #2 (2000/173/23:28:43 – 23:35:13), roll degree = -17.4518

Wed, June 21, 2000 – MODIS Roll #3 (2000/174/01:07:16 – 01:13:46), roll degree = -16.9070

MODIS Anomalies:

None.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open.

MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 163.9 of 500 hours

SRCA 10W Lamp #2: 131.0 of 500 hours

SRCA 10W Lamp #3: 140.2 of 500 hours

SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 554.3 of 4000 hours

SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1353 of 3022 Movements

Nadir Aperture Door: 532 of 1316 Movements

Space View Door: 437 of 1316 Movements